IN THE CLAIMS:

1-8. (Cancelled),

9. (New) Vehicle roof with an integrated device for ventilating and cooling the interior of a vehicle, comprising an air guide channel having air inlet openings located in a rear area of the vehicle roof, the air guide channel being restricted to a rear area of the vehicle roof, at least one fan within the air guide channel for taking in outside air, and solar cells on roof for supplying power to at least the at least one fan; wherein a bottom side of the air guide channel is formed by a first roof panel portion which extends from a rear end of the roof vehicle toward a front end of the roof, and wherein a top side of the air guide channel is formed by a second roof panel portion which extends from the front end of the roof toward the rear end of the roof.

10. (New) Device as claimed in claim 9, wherein the solar cells are mounted above the air guide channel on the outside of the second roof panel.

11. (New) Device as claimed in claim 9, wherein the air guide channel extends essentially in a lengthwise direction of the roof.

12. (New) Device as claimed in claim 9, wherein the air guide channel has air outlet openings for directing air into a vehicle interior which are located at an end of the air guide channel which is directed toward the front end of the vehicle front.

13. (New) Device as claimed in claim 9, wherein the at least one fan is an axial fan.

14. (New) Device as claimed in claim 9, wherein the at least one fan is a radial fan.

15. (New) Device as claimed in claim 12, wherein the air inlet openings, the air guide channel and the air outlet openings extend across the entire width of the vehicle roof.

16. (New) Device as claimed in claim 9, wherein at least one cooling element is mounted in the air guide channel.

17. (New) Device as claimed in claim 16, wherein the at least one cooling element is a Peltier cooling element.

18. (New) Device as claimed in claim 16, wherein the solar cells are also connected for supplying power to said at least one cooling element.